# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 11/20/2020 09:16 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 02/04/2020 09:45 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 80996 | Expiration Date: | 04/30/2020 (Expired) |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124592 | -1 | 2.45 | 124602 | 2.47 |
| Blue | F | SSC | 125000 | 124679 | -1 | 1.67 | 125374 | 1.65 |
| Blue | E | FITC | 15892 | 15407 | -4 | 2.93 | 335 | 21.62 |
| Blue | D | PE | 29999 | 29202 | -3 | 2.06 | 634 | 15.68 |
| Blue | B | PerCP-Cy5-5 | 43732 | 43354 | -1 | 3.93 | 1161 | 21.59 |
| Blue | A | PE-Cy7 | 30845 | 30932 | 0 | 6.45 | 584 | 43.98 |
| Red | C | APC | 46112 | 45115 | -3 | 2.44 | 1592 | 12.24 |
| Red | A | APC-Cy7 | 30458 | 29368 | -4 | 2.36 | 774 | 12.24 |
| Violet | B | V450 | 7918 | 7438 | -7 | 4.66 | 423 | 13.35 |
| Violet | A | V500 | 32171 | 30456 | -6 | 4.47 | 713 | 10.50 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 16623 | 13.96 | 658 | 37 | N/A | N/A | Pass |
| Blue | F | SSC | 57345 | 1.26 | 590 | 31 | N/A | N/A | Pass |
| Blue | E | FITC | 60 | 68.96 | 556 | 13 | 0.0169 | 131 | Pass |
| Blue | D | PE | 134 | 52.51 | 562 | 14 | 0.1431 | 272 | Pass |
| Blue | B | PerCP-Cy5-5 | 213 | 52.33 | 670 | 14 | 0.0080 | 42 | Pass |
| Blue | A | PE-Cy7 | 106 | 111.19 | 716 | 18 | 0.0095 | 18 | Pass |
| Red | C | APC | 381 | 25.32 | 590 | 6 | 0.0238 | 130 | Pass |
| Red | A | APC-Cy7 | 170 | 29.86 | 560 | 4 | 0.0054 | 1129 | Pass |
| Violet | B | V450 | 63 | 59.78 | 457 | -1 | 0.0474 | 1831 | Pass |
| Violet | A | V500 | 107 | 35.64 | 473 | -1 | 0.0258 | 1283 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -33.10 | -32.26 | 1.03 |
| Blue | 20.34 | 16.27 - 24.41 | 1.26 | 0.99 - 1.49 | 0.00 | 0.00 | 1.40 |
| Red | 16.28 | 13.60 - 20.40 | N/A | N/A | 29.30 | 30.03 | 1.18 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.73

## Threshold

Threshold (FSC): 9822

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments